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1 [Improving the browsing experience: Information search and re-access strategies of experienced web users](#)



Anne Aula, Natalie Jhaveri, Mika Käki

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(212.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Experienced web users have strategies for information search and re-access that are not directly supported by web browsers or search engines. We studied how prevalent these strategies are and whether even experienced users have problems with searching and re-accessing information. With this aim, we conducted a survey with 236 experienced web users. The results showed that this group has frequently used key strategies (e.g., using several browser windows in parallel) that they find important, whe ...

Keywords: experienced web users, information re-access, questionnaire study, web search

2 [Compiling document collections from the Internet](#)



V. Kluev

September 2000 **ACM SIGIR Forum**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(684.24 KB) Additional Information: [full citation](#), [abstract](#), [citings](#), [index terms](#)

Presently domain specific search engines are becoming popular because they offer greater accuracy, when compared to general purpose search engines. In this study, a method for collecting domain specific documents from the net was developed for the purpose of improving search results. The main thrust of our approach is to use several metrics to estimate the relevance of every automatically discovered document by a crawler regarding a topic of interest. This type of search resulted in two importan ...

Keywords: data collection, relevance information, search context, search engine

3 [3-1 Visualization: Information visualization: using virtual reality techniques in the three-dimensional representation of data from a medical images database](#)



Claudia Beatriz Berti, Fátima L. Santos Nunes, Antonio Carlos Sementille, José Remo F. Brega, Ildeberto Rodello, Rafael Takashi

June 2004 **Proceedings of the 2004 ACM SIGGRAPH international conference on Virtual Reality continuum and its applications in industry**

Publisher: ACM Press

Full text available:  pdf(357.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents the importance of representing data in a visual form in order to facilitate its understanding and introduces a proposal of a tool to information visualization from results obtained in queries of a medical image database by using three-dimensional objects. The system will be developed in non-immersive Virtual Reality environment aimed to make possible its use with computers without requirement of additional hardware and software.

Keywords: information visualization, virtual reality

4 [A web-based multimedia database for national flag application](#)

Longzhuang Li, Dehu Qi, Xinqi Zhang

October 2004 **Journal of Computing Sciences in Colleges**, Volume 20 Issue 1

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  pdf(577.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Frequently in the database management systems (DBMS) class, we teach students the theory and practical skills required to create efficient Web-based database systems. Generally, at Texas A&M University-Corpus Christi and Lamar University, the projects done in the DBMS class are text-based database systems. However, in this paper we describe a project in which students implement a Web-based multimedia database for the national flag application. The development and implementation of the multimedia ...



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1 [Shape-based retrieval and analysis of 3D models](#)



Thomas Funkhouser, Michael Kazhdan

 August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

 Full text available: [pdf\(12.56 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

2 [A search engine for 3D models](#)



Thomas Funkhouser, Patrick Min, Michael Kazhdan, Joyce Chen, Alex Halderman, David Dobkin, David Jacobs

 January 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(7.91 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

As the number of 3D models available on the Web grows, there is an increasing need for a search engine to help people find them. Unfortunately, traditional text-based search techniques are not always effective for 3D data. In this article, we investigate new shape-based search methods. The key challenges are to develop query methods simple enough for novice users and matching algorithms robust enough to work for arbitrary polygonal models. We present a Web-based search engine system that support ...

Keywords: Search engine, shape matching, shape representation, shape retrieval

3 [Learning I: Researchexplorer: gaining insights through exploration in multimedia scientific data](#)



Bo Gong, Rahul Singh, Ramesh Jain

 October 2004 **Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval**

Publisher: ACM Press

 Full text available: [pdf\(927.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An increasing amount of heterogeneous information about scientific research is becoming available on-line. This potentially allows users to explore the information from multiple

perspectives and derive insights and not just raw data about a topic of interest. However, most current scientific information search systems lag behind this trend; being text-based, they are fundamentally incapable of dealing with multimedia data. An even more important limitation is that their information environmen ...

Keywords: event, exploration, interaction environment, isight, multimedia data, research event, spatio-temporal data

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1 [Juried artists: Meggan Gould](#)



Meggan Gould

 August 2005 **Proceedings of the ACM SIGGRAPH 05 electronic art and animation catalog GRAPH '05**

Publisher: ACM Press

 Full text available: [pdf\(201.38 KB\)](#) Additional Information: [full citation](#)

2 [Voronoi diagrams—a survey of a fundamental geometric data structure](#)



Franz Aurenhammer

 September 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(5.18 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: cell complex, clustering, combinatorial complexity, convex hull, crystal structure, divide-and-conquer, geometric data structure, growth model, higher dimensional embedding, hyperplane arrangement, k-set, motion planning, neighbor searching, object modeling, plane-sweep, proximity, randomized insertion, spanning tree, triangulation

3 [Visualization with UML: Visual specification and analysis of use cases](#)



Deepali Kholkar, G. Murali Krishna, Ulka Shrotri, R. Venkatesh

 May 2005 **Proceedings of the 2005 ACM symposium on Software visualization**

Publisher: ACM Press

 Full text available: [pdf\(320.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Unified Modelling Language (UML) is popular mainly due to the various visual notations it provides for specifying large systems. In UML the details of a use case are specified in natural language using standard templates [Cockburn 2000]. This is a critical gap leading to detailed requirements of an application being specified in natural language. As a result, inadequate analysis of business requirements is a source of many defects in software application development. Here we propose to bridge th ...

Keywords: UML, model checking, requirements, visual notation

4 [Shape-based retrieval and analysis of 3D models](#)



Thomas Funkhouser, Michael Kazhdan



August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(12.56 MB) Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

5 ActiveText: a method for creating dynamic and interactive texts



Jason E. Lewis, Alex Weyers

November 1999 **Proceedings of the 12th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: pdf(226.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes ActiveText, a method for creating dynamic and interactive texts. ActiveText uses an object-based hierarchy to represent texts. This hierarchy makes it easy to work with the ASCII component and pixel component of the text at the same time. Static, dynamic and interactive properties of text can be easily intermixed and layered. The user can enter and edit text, adjust static and dynamic layout, apply dynamic and interactive behaviors, and adjust their parameters with a co ...

Keywords: continuous editing, dynamic sketching, dynamic typography, interactive text, typography

6 Session VII - interfaces: multi-media and multi-user: A performing medium for working group graphics



Fred Lakin

December 1986 **Proceedings of the 1986 ACM conference on Computer-supported cooperative work**

Publisher: ACM Press

Full text available: pdf(1.44 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Writing and drawing together on a common display often assist a working group in a task. For example, face-to-face groups have long enjoyed the richness of graphic communication found on blackboards. The spontaneous image manipulations which take place over time on a blackboard can be viewed as a *text-graphic performance*. A human performer generates and manipulates text and graphics for the purpose of assisting the working group in their task. The phenomenon of performed text-graphics prese ...

7 Intelligent graphics



Henry Lieberman

August 1996 **Communications of the ACM**, Volume 39 Issue 8

Publisher: ACM Press

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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[Vehicular Technology Conference, 2004. VTC2004-Fall, 2004 IEEE 60th](#)

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